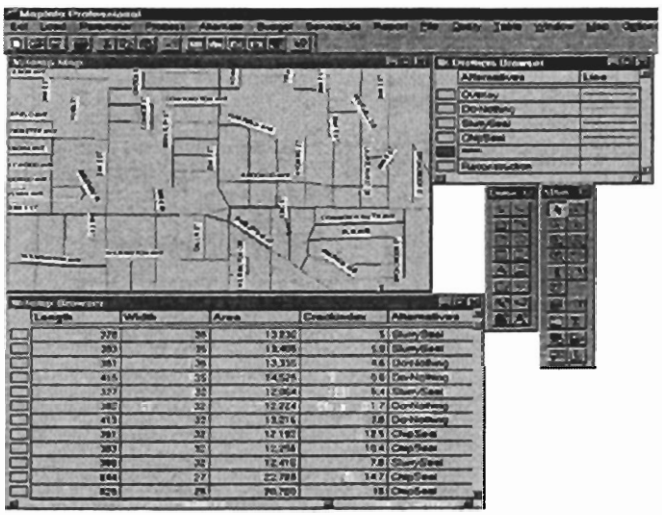
Center for Advanced Construction Materials

Director: Hosin Lee, Ph.D., University of Utah, Salt Lake City, Utah
Phone 585-3512, Fax 585-5477, e-mail: hlee@civil.utah.edu

The center's major emphasis is in the development of new and recycled construction materials, and innovative techniques for inspecting the condition of constructed facilities.

Background

Established in 1993 the center's major emphasis is in the development of new and recycled construction materials, and innovative techniques for inspecting the condition of constructed facilities.



Technology Development Progress

Core technologies include: (1) automated facilities management system (AFMS), e.g. to measure and analyze pavement cracks to schedule maintenance strategies; (2) tire added latex concrete blocks, to use waste materials and to improve performance (3) new construction product testing and evaluation services.

Highlights and Accomplishments

Two modules have been developed in the AFMS: PicCrack and MapCrack. PicCrack takes digitized pictures of pavement cracks and computes a crack index using a proprietary image processing algorithm at significant lower costs that currently available manual systems. MapCrack selects the most appropriate maintenance strategy and provides present costs and long-term budget estimates for maintenance programs.

The AFMS has been beta-tested in four cities in Utah and the results were favorable. The software is being copyrighted and licensees are being sought.

Summary Data:

Current

1996-97 Award	$75,000
Matching Funds	$181,653
Patents Pending	2
Patents Issued	0
License Agreements	0
Spin-off Companies	0
Companies Assisted	31
Industry Jobs	9
Center Jobs	7

Cumulative

Awards	$175,000
Matching Funds	$473,916
Patents Issued	0
License Agreements	0
Spin-off Companies	2